

CLAIMS

What is claimed is:

1. A method for managing code execution synchronization, said
5 method comprising:
 - receiving a synchronization request message comprising a first node
meeting identifier and a number of participants;
 - maintaining a record of node meeting identifier and number of
participants for each of a plurality of received synchronization request message;
 - 10 checking whether the number of records having said first node meeting
identifier in comparison to the number of participants in a record having said
first node meeting identifier meets a given condition; and
 - transmitting a synchronization-attained message when said given
condition is met.
- 15 2. The method of Claim 1, wherein said given condition comprises
that said number of records having said first node meeting identifier is equal to
or greater than said number of participants in a record having said first node
meeting identifier.
- 20 3. The method of Claim 1, wherein said maintaining comprises
creating a table for maintaining records having said first node meeting identifier.
4. The method of Claim 1, wherein said maintaining comprises
25 counting said number of records having said first node meeting identifier.

5. The method of Claim 1, wherein said synchronization request message comprises a participant/non-participant indication, and wherein said maintaining comprises maintaining a record comprising said participant/non-participant indication of a received synchronization request message.

5

6. The method of Claim 5, wherein said maintaining comprises counting said number of records having said same node meeting identifier and said participant indication.

10 7. The method of Claim 6, wherein said synchronization-attained message comprises said number of records having said same node meeting identifier and said participant/non-participant indication.

8. The method of Claim 1, wherein said synchronization request
15 message is adapted to be sent from a synchronization request function on request of a calling process, said calling process providing parameters.

9. The method of Claim 8, wherein said synchronization request
function is adapted to operate at least one error control on at least one of said
20 provided parameters and, responsive to a detected error on said parameter, to transmit an error message to said calling process.

10. The method of Claim 8, wherein said synchronization request message further comprises an unblocked/blocked indication.

25

11. The method of Claim 10, wherein said transmitting further comprises, responsive to a blocked indication, transmitting said

synchronization-attained message to said synchronization request function.

12. The method of Claim 1, wherein said transmitting further comprises, on receipt of said synchronization-attained message, transmitting a return of said synchronization request function to said calling process if said
5 synchronization request message comprises a blocked indication.

13. A computer-usable medium having computer-readable program code embodied therein for causing a computer system to perform a method for
10 managing code execution synchronization, said method comprising:
receiving a synchronization request message comprising a first node meeting identifier and a number of participants;
maintaining a record of node meeting identifier and number of participants for each of a plurality of received synchronization request message;
15 checking whether the number of records having said first node meeting identifier in comparison to the number of participants in a record having said first node meeting identifier meets a given condition; and
transmitting a synchronization-attained message when said given condition is met.

20

14. The computer-usable medium of Claim 13, wherein said given condition comprises that said number of records having said first node meeting identifier is equal to or greater than said number of participants in a record having said first node meeting identifier.

25

15. The computer-usable medium of Claim 13, wherein said maintaining comprises creating a table for maintaining records having said first

node meeting identifier.

16. The computer-usable medium of Claim 13, wherein said
maintaining comprises counting said number of records having said first node
5 meeting identifier.

17. The computer-usable medium of Claim 13, wherein said
synchronization request message comprises a participant/non-participant
indication, and wherein said maintaining comprises maintaining a record
10 comprising said participant/non-participant indication of a received
synchronization request message.

18. The computer-usable medium of Claim 17, wherein said
maintaining comprises counting said number of records having said same node
15 meeting identifier and said participant indication.

19. The computer-usable medium of Claim 18, wherein said
synchronization-attained message comprises said number of records having said
same node meeting identifier and said participant/non-participant indication.

20

20. The computer-usable medium of Claim 13, wherein said
synchronization request message is adapted to be sent from a synchronization
request function on request of a calling process, said calling process providing
parameters.

25

21. The computer-usable medium of Claim 20, wherein said
synchronization request function is adapted to operate at least one error control

on at least one of said provided parameters and, responsive to a detected error on said parameter, to transmit an error message to said calling process.

22. The computer-usable medium of Claim 20, wherein said
5 synchronization request message further comprises an unblocked/blocked indication.

23. The computer-usable medium of Claim 22, wherein said
transmitting further comprises, responsive to a blocked indication, transmitting
10 said synchronization-attained message to said synchronization request function.

24. The computer-usable medium of Claim 13, wherein said
transmitting further comprises, on receipt of said synchronization-attained
message, transmitting a return of said synchronization request function to said
15 calling process if said synchronization request message comprises a blocked indication.

25. A computer system comprising:
a memory unit; and
20 a processor coupled to said memory unit, said processor for executing a method for managing code execution synchronization, said method comprising:
receiving a synchronization request message comprising a first node meeting identifier and a number of participants;
maintaining a record of node meeting identifier and number of
25 participants for each of a plurality of received synchronization request message;
checking whether the number of records having said first node meeting identifier in comparison to the number of participants in a record having said

first node meeting identifier meets a given condition; and
transmitting a synchronization-attained message when said given
condition is met.

5 26. The computer system of Claim 25, wherein said given condition
comprises that said number of records having said first node meeting identifier
is equal to or greater than said number of participants in a record having said
first node meeting identifier.

10 27. The computer system of Claim 25, wherein said maintaining
comprises creating a table for maintaining records having said first node
meeting identifier.

 28. The computer system of Claim 25, wherein said maintaining
15 comprises counting said number of records having said first node meeting
identifier.

 29. The computer system of Claim 25, wherein said synchronization
request message comprises a participant/non-participant indication, and
20 wherein said maintaining comprises maintaining a record comprising said
participant/non-participant indication of a received synchronization request
message.

 30. The computer system of Claim 29, wherein said maintaining
25 comprises counting said number of records having said same node meeting
identifier and said participant indication.

31. The computer system of Claim 30, wherein said synchronization-attained message comprises said number of records having said same node meeting identifier and said participant/non-participant indication.

5 32. The computer system of Claim 25, wherein said synchronization request message is adapted to be sent from a synchronization request function on request of a calling process, said calling process providing parameters.

10 33. The computer system of Claim 32, wherein said synchronization request function is adapted to operate at least one error control on at least one of said provided parameters and, responsive to a detected error on said parameter, to transmit an error message to said calling process.

15 34. The computer system of Claim 32, wherein said synchronization request message further comprises an unblocked/blocked indication.

20 35. The computer system of Claim 34, wherein said transmitting further comprises, responsive to a blocked indication, transmitting said synchronization-attained message to said synchronization request function.

25 36. The computer system of Claim 25, wherein said transmitting further comprises, on receipt of said synchronization-attained message, transmitting a return of said synchronization request function to said calling process if said synchronization request message comprises a blocked indication.